



CHAPTER I INTRODUCTION

1.1. Background of The Study

Smart phones are one of the most common technologies and devices accessed and used by many people all over the world and smartphones which have become a primary need in human life today are very easy to develop. At the beginning of 2016, Android became the most dominating mobile operating system in the world (NetApplications, 2016), in Indonesia alone as many as 250 million people allow a portion of the population to become smartphone users. active. This is in accordance with the results of a survey from the digital marketing research institute Emarketer, which estimates that in 2018 there will be more than 100 million active smartphone users in Indonesia. With such a large number, Indonesia will become the country with the fourth largest active smartphone user in the world after China, India, and America (Rahmayani, 2015). They have become one of the main tools to get quick access to information. The role of smart phones is apparent in all aspects of life, particularly in politics and education.

In line with the development of science and technology in the world, an agency is required to work quickly, precisely, and correctly with a high level of accuracy. This means that the company or agency can run and survive in the competition in the competitive world of technology. One technology that has been proven to be able to support the smooth activities of a company or agency is information technology. It is the same with one of the institutions, namely the school, which is required to carry out daily activities quickly, precisely, and



correctly with a high level of accuracy. One of the activities is information on borrowing books, returning books, and others at school or other institutions which are still manual. The facilities provided by the agency at this time are very beneficial for all readers if they can be used optimally. The development of information technology is currently growing rapidly. The use of Android in conveying information is very helpful and useful for institutions or companies. Not limited by place, time and cost. The process of getting information from Android is also more up to date. The information displayed and presented may change from time to time so that the information presented is not out of date or too late. This convenience makes Android a popular means of information among users today.

According to Yusuf and Suhendar stated that the library is a place in which there are activities for collecting, managing, and disseminating (services) all kinds of information, both printed and recorded in various media such as books, magazines, newspapers, films, cassettes, tape recorders, videos (Yusuf, 2007). Although it can be interpreted as an individual's private collection, a library is more commonly known as a large collection financed and operated by a city or institution, and used by people who on average cannot afford many books at their own expense. This is what is called a conventional library.

Library and information center management is a computerized process to process data in the library. Everything is processed using certain software such as database processing software. According to Abdul Kadir (in Haryono, 2012) defines a database as a collection of useful information that is organized into a special procedure. Librarians can always monitor the availability of books, list of



new books, borrow books, and return books. So compared to conventional libraries, library and information center management make it easier for library employees and library users to manage and borrow books.

1.2. Research Issues and Problem Statement

1. The development of technology in this library is useful for helping librarians to work more easily.

The library is a learning tool for students in seeking information or knowledge. The library is a unified work unit consisting of several parts, namely the collection development section, the collection processing section, the user service section, and the facilities and infrastructure maintenance section. The development of this technology also has a positive impact on humans, namely helping human work to be more effective and efficient. One of them is to make conventional systems into computerized systems that can facilitate human work because almost all computerized systems are systems that are ready to use.

2. The current library still uses the manual way of recording books and users, as well as borrowing books.

Currently, the library of the Department of Management, especially in borrowing transactions and storing the list of available books, still uses a system that has not been computerized, so it is prone to errors in the circulation of borrowing books caused by existing data. not saved properly, as well as the save list. Ineffective library management.

3. Users still have difficulty finding the book they want, because there is no fast system to help them with finding books.

Sometimes students have trouble finding the book they want to read. This



must be overcome with an Android-based library and information center management apps, because with this application the processing of library data can be more effective so that the circulation of borrowing books and the list of available books can be well documented and more effective.

Therefore, the purpose of this research is to build an Android-based library and information center management to make it easier for library admins to manage user data and make it easier for users to find and borrow books online.

1.3 Objective of The Study

The research objective is what the researcher expects to achieve in the research of study. A research objective is usually expressed in lay terms, which are words or statements that someone outside of a specific field can understand. In general, the objective of this study is to design and develop library and information center management in Department of Management which aims to improve the efficiency of the original library work using a manual system into an application Android-based. Specifically, the objective of this study is:

1. To improve the work efficiency of the original library from a manual system into a computer technology-based information system.
2. To facilitate the processing of member data, data on borrowing and returning books, as well as making reports that have been computerized, making it easier for admins to make reports.
3. To develop an application of library and information center management using Android-based.

Therefore, the purpose of this study is to make it easier for admins to compile reports on activities in the library online and provide facilities for users to



be able to borrow and search for books online without having to come to a library directly, so that they can save time and reduce existing human errors.

1.4. Research Hypotheses

In this study, there are several research questions required to be answered:

- 1) How is the library and information center management currently running at the Department of Management?
- 2) Can the application increase the effectiveness of the library admin staff in making borrower data reports at the Department of Management?
- 3) How to build an application library and information center management at Department of Management using an Android-based?

1.5. Significance of the Study

This research will be carried out to make it easier for library admins to register books and membership, as well as readers can easily find books without the need to come to the library directly. The relationship between perceived benefits. Furthermore, this research encourages people to like reading because it has been made easier by this android-based application. in further research, which is to enrich their knowledge and make it easier for them to get information about the management department that is carried out more modernly. In addition, researchers hope that this research can be useful in terms of providing knowledge that can be used as a learning resource for students.

1.6. Scope of the Study

This study aims to build an integrated library and information center management that can be used in library automation including collection procurement, collection development, collection circulation and membership. and



with this application it makes it easier for admins to manage reader data, and this application can easily be accessed by admins and for users later.

1.7. Assumptions and Limitations

1.7.1 Assumptions

1. This application is very useful for the progress of the institution because the system has been computerized and based on Android so that it is more modern.
2. This application makes it easier for the library admin or librarian to manage book data, members, and book circulation in a more organized manner.
3. With this application, it is hoped that it can help students or users in finding books online and can increase their love of reading in this modern era.

1.7.2 Limitations

1. This application can be accessed by users and library admins, Department of Management.
2. This application can view information on the data of library members and borrow books at the library.
3. This application is built using the Java Android Studio programming language.